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The Connecticut Agricultural Experiment Station.

BULLETIN No. 85.

OCTOBER, 1885.

The object of these Bulletins is to place in the hands of those concerned the results of the station work as promptly as possible.

As required by law, a package of each Bulletin is mailed to every post-office in the State. The package is directed to the Postmaster, with a request to distribute to farmers. The number sent will be increased in any case on application.

The Bulletins are also regularly sent to every newspaper in the State, and to the Secretary of each Agricultural society, Farmer's club and Grange whose address is known to the Station.

The Bulletins will be regularly sent, also, on application, to any private address in Connecticut. Such application, as a rule, must be renewed annually.

To citizens of other States remitting fifty cents, the publications of the current year, including Bulletins and Annual Report, will be mailed as they appear. Applications should be made early in the year.

FERTILIZER ANALYSES.

When not otherwise stated the samples whose analyses are given below were drawn by an agent of the Station.

MURIATE OF POTASH.

1520. Muriate of Potash. Stock of G. B. Forrester, New York. Sampled and sent by S. B. Wakeman, Saugatuck.

1521. Muriate of Potash. Stock of G. B. Forrester, New York. Sampled and sent by W. H. Couch, Saugatuck.

A	NA	~ ~	+~	
/4	N A	1. Y	- 81	6.8

	1520	1521
Potash found	53.43	52.65
Potash guaranteed		
Equivalent muriate	84.6	83.39
Cost per ton	\$42.50*	42.50*
Potash costs per pound	3.98 ets.	4,03 ets.

^{*} In New York.

SULPHATE OF AMMONIA.

1527. Sulphate of Ammonia. Sold by E. H. Wardwell, New York. From lot purchased by J. J. Webb, Hamden.

1522. Sulphate of Ammonia. Sold by Mapes' Branch, Hartford.

ANALYSES.

1527. Nitrogen found	20.65, equivalent	to ammonia,	25.07	
1522. Nitrogen found	20.57, equivalent	to ammonia.	24.9	
Cost per ton		\$	76.00	
Nitrogen costs per pound 18.4 cents.				

NITRATE OF SODA.

1515. Nitrate of Soda. Sold by Mapes' Formula and Peruvian Guano Co. From stock of Wilson & Burr, Middletown.

ANALYSIS.

	1515
Nitrogen	16.13
Equivalent nitrate of soda	97.9
Cost*per ton	\$52.50
Nitrogen costs per pound	16.2 ets.

TANKAGE.

1463. Tankage. Sold by F. S. Andrew & Co., New Haven. Sampled and sent by W. T. Andrew, Tyler City.

ANALYSIS

	1463
Nitrogeu	4.02
Phosphoric acid	4.83
Cost per ton	\$20.00
Valuation per ton	

DRIED BLOOD.

1467. Dried Blood. Sold by Williams, Clark & Co., 101 Pearl street, New York. Stock of E. S. Roberts, East Canaan.

BONE AND BLOOD.

1529. Bone and Blood. Sold by Sperry & Barnes, New Haven. Stock of Sperry & Barnes. Sampled and sent by J. J. Webb, Hamden.

Analysis.	
	1529
Nitrogen	7.14
Phosphoric acid	7.39
Valuation per ton	\$34.57

FISH GUANO.

1479. Bowker's Dry Fish. Made by the Bowker Fertilizer Co. Stock of Coburn & Gale, Hartford. Sampled and sent by W. F. Andross, East Hartford. Nitrogen guaranteed, 8 per cent.

1501. Ground Fish. Made by Williams, Clark & Co., New York. Stock of W. C. Reynolds, East Haddam.

1451. Fish Guano. Made by H. Preston & Sons, Greenpoint, L. I. Stock of Smith & Sons, West Cornwall. Guaranteed nitrogen 3.5, phosphoric acid 5.

ANALYSES.

		1479	1501	1451
Nitrogen		8.05	8.68	3.91
Phosphoric acid,	soluble	.93	1.02	2.42
(;	reverted	4.44	4.12	2.55
44	insoluble	2.17	1.23	.84
Cost per ton		\$38.00	\$38.00	\$37.50
Valuation per ton	1	39.49	40.66	23.19

Home-mixed Fertilizers.

1538. Home-mixed Fertilizer made by J. J. Webb, Hamden. The sample was drawn by Mr. Webb by taking one tablespoonful from each of fifty-four packages containing 200 lbs. each.

1539. Sample of the above goods, drawn by an agent of the Station from a considerable number of packages.

This Fertilizer is a mixture of Dissolved Bone Black, Bone and Blood, Sulphate of Ammonia and Muriate of Potash. Its mechanical condition is excellent. Analyses of the Dissolved Bone Black or Acid Phosphate (1528), of the Bone and Blood (1529), and the Sulphate of Ammonia (1527), are given above.

The Muriate of Potash used contained 52.25 per cent. of Potash.

The amounts of these materials used by Mr. Webb were stated to be as follows:

Dissolved Bone Black,	4,000	pounds.
Bone and Blood,	6,205	"
Sulphate of Ammonia,	1,251	66
Muriate of Potash,	2,000	66
	13,456	66

Knowing the composition of these goods it is easy to calculate what should be the composition of the mixture.

In 4,000 lbs. Bone Black are 764 lbs. Phos. Acid, (6,205 " and Blood "458 " " "	Total.
and 443 " Nitrogen, (In 1,251 lbs. Sulphate of Ammonia are 258 lbs. "	701
" 2,000 " Muriate of Potash are 1,045 lbs. Potash,	1,045

The percentage composition will be as follows:

Phosphoric Acid,	9.09
Nitrogen,	5.20
Potash,	7.76

In the following table this calculated composition is compared with the actual composition of the samples drawn by Mr. Webb and by the Station Agent.

	Formula.	Mr. Webb's Sample.	Station Sample.
		1538.	1539.
Nitrogen,	5.20	5.02	5.09
Soluble Phosphoric Acid,		6.15	6.20
Reverted Phosphoric Acid,		1.75	2.65
Insoluble Phosphoric Acid,		1.54	.62
Total Phosphoric Acid,	9.09	9.44	9.47
Potash,	7.76	8.05	8.10
Valuation per ton,		\$40.01	\$41.09

The composition of the two samples is almost identical. They contain somewhat more potash and phosphoric acid and a little less nitrogen than corresponds to the formula but the agreement is as close as could be expected.

The total cost of the materials (13,456 pounds) delivered in New Haven was stated by Mr. Webb to be \$215.06 or \$31.96 per ton.

1508. Home-mixed Tobacco Fertilizer. Sampled and sent by Abner Trask, East Hartford. It is stated to consist of a mixture of

2,000 pounds Cotton Seed Meal.
1,000 " Cotton Hull Ashes.
500 " Lime.
500 " Plaster.
4,000

and to cost \$25.42 per ton. Whether this includes the cost of mixing is not stated.

Analysis.	
ANAUISIS.	1508.
Nitrogen,	3.37
Soluble Phosphoric Acid,	
Reverted Phosphoric Acid,	2.08
Insoluble Phosphoric Acid,	.12
Potash,	5.44
Cost per ton,	25.42
Valuation,	\$23.40

THE CHARTER OAK FERTILIZER.

1452. Made by Paul Thomson, Colt's Dyke, Hartford. Stock of S. W. Elliot, Salisbury.

ANALYSIS.

Water,	22.54
Organic matter,	12.70
A sh,	64.76
,	
	100.00

The guaranteed and actual composition are as follows:

	Found.	Guaranteed.
Nitrogen,	1.18	1.6
Soluble Phosphoric Acid,	Trace (2.5
Reverted Phosphoric Acid,	.95 \	2.0
Insoluble Phosphoric Acid,	.28	
Potash,	2.67	2.0
Sand and Soil,	43.51	

More than three-fifths of this fertilizer are made up of useless material, sand and water. Its cost is \$30, its valuation \$8.26.

BONE MANURES.

	Station Name or Brand, No.	Manufacturer.	Dealer.	Sampled and sent by
1436	1436 Buffalo Chemical Co's Pure Ground Buffalo Fertilizer Works, L. L. J. E. Leonard, Jewett City.	Buffalo Fertilizer Works, L. L.	J. E. Leonard, Jewett City.	Station Agent.
1433	Bonc. 1433 E. Frank Coe's Ground Bone.	Crocker, Buffalo, N. Y. B. John A. Paine, Danielsonville. Station Agent.	John A. Paine, Danielsonville.	Station Agent.
1525	Lister's Crescent Bone.	N. Y. I. Ister Brothers, Newark, N. J. Swan's Seed Store, Bridgeport, Station Agent.	Swan's Sced Store, Bridgeport.	Station Agent.
1461	Ground Bone, Preston's Ground Bone,	H. Preston & Sons, Greenpoint, Brewster & Burnett, Norwich. Station Agent.	Brewster & Burnett, Norwich.	Station Agent.
1507	1507 Bone and Potash.	L. J. Williams, Clark & Co., 109 J. F. Silliman, New Canaan.	J. F. Silliman, New Canaan.	Station Agent.

BONE MANURES.

	°u;	эіто			Finer	than		g prop	noj 18	noi:
Name or Brand.	Zitroge	Phosph Acid,	Potash	1-50 inch.			1-6 Inch.	Coarse than 1-6	Costpe	Valuat per to
Mel Ob amigal Wouled Dury (tround Bono	4.26	23.53		5.5	26	37	1	:	\$40.00	\$39.51
Physic Chole Ground Bone	2.63	15.42	2.02	Ŧ9	91	21	œ	0	38.00	26.30
Proceed Rone	3 55	12.64	1	44	19	21	15	_	30.00	25.00
	8.99	21.61	8 2	ÇÌ	5	-1	11	28	:	26.75
Outlin Done	4.25	13.29	1	50	-	91	6	oo.	32.00	27.95
Potash	1.65	8.40	4.90	58	15	50	9	_	34.00	20.18
	me or Brand. 6 Ground Bone	Name or Brand. smical Works' Pure (fround Bone oe's Ground Boue seent Bone hound Boue read to the seent Bone or seent Bone or seent Bone	Mame or Brand. Smical Works: Pure Ground Bone	mical Works; Pure (fround Bone 233.53 200) 2.63 15.42 2.63 15.42 2.63 15.42 2.63 15.42 2.63 15.42 2.63 15.42 2.63 15.42 2.63 2.63 15.42 2.63 2.64 2.63 2.63 2.63 2.63 2.63 2.63 2.63 2.63	Same or Brand. Since of Brand. Since of Properties of Street St	Name or Brand. Simical Works' Pure (fround Bone seem Bo	Name or Brand. Name	Name or Brand. Name or Brand.	mical Works' Pure (fround Bone 2.23.53 15.4 1.2 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Name or Brand. Name or Brand. State St

SUPERPHOSPHATES, SPECIALS AND GUANOS.

Station No.	Name or Brand.	Manufacturer.	Dealer,	Sampled and Sent by
1510	1510 Buffalo Fertilizer Work's Super-	Work's Super-Buffalo Fertilizer Works, Buffalo S. E. Case, New Hartford.		Station Agent.
1411	phosphate. [2] Buffalo Fertilizer Work's Ammon-Buffalo Fertilizer		Works, Buffalo, James Greenfield, New London.	17
1509	iated Bone Superphosphate. Buffalo Fertilizer Work's Ammon-Buffalo Fertilizer	N. Y. Buffalo Fertilizer Works, Buffalo,		E. E. Meeker, New Preston.
1528	nated Bone Superphosphate. N. Y. Baker's Acid Phosphate, 17–19 per H. J. Baker & Bro., New York.	N. Y. H. J. Baker & Bro., New York.		Station Agent. From J. J.
1551	cent. Bay State Fertilizer.	Clark's Cove Guano Co., New Bed. Lewis Chamberlain, Coventry. A. H. Pomeroy, Coventry.	Lewis Chamberlain, Coventry.	weob. A. H. Pomeroy, Coventry.
1469	1469 Bowker's Fish and Potash,	John, Mass. John T. H. Kierns, Bristol.	L. H. Kierns, Bristol.	Station Agent.
1494	1494 Russell Coe's Soluble Bone Phos- Russell Coe's Soluble Bone P	Russell Coe Fertilizer Co., 88 Wall	M. S. Baldwin, Naugatuck.	M. S. Baldwin, Naugatuck.
1491	1491 Russell Coe's Soluble Bone Phos- Russell Coe Ferulizer Co., 88 Wall	Russell Coe Ferdilizer Co., 88 Wall		E. E. Mecker, New Preston.
1492	Ã	Su, New York. Russell Coe Fertilizer Co., 88 Wall		22
1519	Bone Superphosphate. Dissolved Bone Black.	St., New York. G. B. Forrester, 169 Front St., New		S. B. Wakeman, Saugatuck.
1416	E.	rork. Read & Co., New York.	M. V. B. Lamb, Norwich.	Station Agent.
1498	sorveu bone. Miles' I. X. L. Superphosphate.	G. W. Miles Co., Milford.	G. W. Miles Co., Milford.	Heury Brown, New Haven.
1454	1454 G. W. Miles' Fish Fertilizer and	27	Burtis & Mead, New Canaau.	Station Agent.
1524	Ï	Mapes' Formula and Peruvian Gu-	Mapes' Branch, Hartford.	ä
1523	Mapes' Pure Fine Bone Dissolved Mapes' Formula and Peruvian Gu-	Mapes' Formula and Peruvian Gu-	3	3
1448		In Suprincia Acid. Original Coe's Superphosphate of Bradley Fertilizer Co., Boston, Mass. Smith & Sons, West Cornwall.	Smith & Sons, West Cornwall.	3
1450	Preston's Ammoniated Bone Super- H. Preston &	H. Preston & Sons, Greenpoint,	n	2
1506	phosphate. Stearns' Ammoniated Bone Super-Stearns & Co., New York. phosphate.		The Platt Mill Co., Waterbury.	n

SUPERPHOSPHATES, SPECIALS AND GUANOS.—Continued.

 1430 Guarns Fish and Potash, No. 1. Stearns & Co., New York. 14.10 Union County Fertilizer. 14.10 U. S. Superphosphate. 14.10 Union Fertilizer. 14.11 Sharer & Uso. 14.12 Union Fertilizer. 14.13 Marchens Ammoniated Bone Super. 14.14 Indepthate. 14.15 Bradley's Countee Corn Manure. 14.16 Bradley's Countee Corn Manure. 14.16 Bradley's Countee Corn Manure. 14.16 Bradley's Counteer Corn Manure. 14.16 Sharester's Corn Manure. 14.16 Sharester's Corn Manure. 14.17 Forrester's Corn Manure. 14.18 Forrester's Corn Manure. 14.18 Forrester's Corn Manure. 14.18 Forrester's Corn Manure. 14.18 Sharester's Connoptee Manure. 14.18 Mapes' Complete Manure. 14.29 Mapes' Fornuta and Peruvian Gu- Acia and Co., New York. 14.20 Mapes' Fornuta and Peruvian Gu- Acia and Co., New York. 14.20 Mapes' Fornuta and Peruvian Gu- Acia and Boston. 14.20 Manure. 14.20 Manure. 14.20 Manure. 14.21 Manure. 14.22 Manure. 14.23 Manure. 14.24 Manure. 14.25 Manure. 14.25 Manure. 14.26 Manure. 	Station No.	Name or Brand.	Manufacturer.	Dealer.	Sampled and Sent by
den, N. J. Lister Bros., Newark, N. J. Swan's Seed Store, Bridgeport. Williams, Clark & Co., New York. Corn Manure. H. J. Baker & Bro., 215 Pearl St., C. S. Smith, Kent. New York. Russell Coe Ferdilizer Co., New M. S. Baldwin, Naugatuck. York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. Manure. Manure. Manure. Manure. Manure. Manure. Manure. Manure for Gen- Mapes Formula and Peruvian Gu- J. P. Barstow, Norwich. Manure, Manure for Gen- Mapes Formula and Peruvian Gu- Josiah Hawkins, Southport. Manure, Manure, Connec. Manure, Manure, Work. Manure, Connec- Mapes Formula and Peruvian Gu- Josiah Hawkins, Southport. Manure, Connec- Mapes Formula and Peruvian Gu- Josiah Hawkins, Southport. Manure, Connec- Mapes Formula and Peruvian Gu- Josiah Bradley, Saugatuck. Manure, Connec- Mapes Formula and Peruvian Gu- Josiah Bradley, Saugatuck. Manure, Connec- Mapes Formula and Peruvian Gu- J. A. Paine, Danielsonville. Bowker Fertilizer. Willians, Clark & Co., New York. J. A. Paine, Danielsonville.	1430			J. E. Leonard, Jewett City.	Station Agent.
Hate, Williams, Clark & Co., New York. John A. Paine, Danielsonville. Williams, Clark & Co., New York. John A. Paine, Danielsonville. "" " " Andrew Kingsbury, Coventry. Ocn Manure. H. J. Baker & Bro., 215 Pearl St., C. S. Smith, Kent. New York. Hussell ("Oe Ferdilizer ("O", New M. S. Baldwin, Naugatuck. York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. G. B. Forrester, 169 Front St., Manufacturer. New York. Annure. G. New York. Manure for Geu-Mapes' Formula and Peruvian Gu-J. P. Barstow, Norwich. Anno Co., New York. Manure, Connec-Mapes' Formula and Peruvian Gu-J. Sosiah Hawkins, Southport. anno Co., New York. Manure, Connec-Mapes' Formula and Peruvian Gu-Josiah Hawkins, Southport. anno Co., New York. Manure, Bowker Fertilizer Co., New York Hubbell & Bradley, Saugatnek. and Boston. Bowker Fertilizer. Williams, Clark & Co., New York. J. A. Paine, Danielsonville.	1504	Union County Fertilizer.	Union County Fertilizer Co., Lin-	Union Fertilizer Co.	Stephen Sanford, Redding
Williams, Clark & Co., New York. Corn Manure. H. J. Baker & Bro., 215 Pearl St., C. S. Smith, Kent. New York. G. B. Forrester, Co., Boston, Mass. Strong & Tanner, Winsted. New York. Manure. Manu	1470	U. S. Superphosphate.	uen, N. J. Lister Bros., Newark, N. J.	Swan's Seed Store, Bridgeport.	Station Agent.
ry.	1435	Fish and Potash.	Williams, Clark & Co., New York.	John A. Paine, Danielsonville.	73
lek.	1550	Americus Ammoniated Bone Super-	37 79 39	Andrew Kingsbury, Coventry.	A. H. Pomeroy, Coveutry.
ick.	1462	pnospnate. Baker's Complete Corn Manurc.	H. J. Baker & Bro., 215 Pearl St.,	C. S. Smith, Kent.	Station Agent.
ort. I. gatnek. He.	1447	Bradley's Complete Manure for Po-	Bradley Fertilizor Co., Boston, Mass.	Strong & Tanner, Winsted.	77
ort. I. gatuck. Ile.	1497	national Roots. Davidge Brand Potato Manure.	Russell Coe Ferblizer Co., New	M. S. Baldwin, Naugatuck.	M. S. Baldwin, Naugatuck.
Forrester's Onion Manure. 15.13 Forrester's Conion Manure. 15.14 Rapes' Grass and Grain Spring Top Mapes' Formula and Peruvian Gu-Josiah Hawkins, Southport. 15.15 Forrester's Polato Manure. 16. B. Forrester, 16.9 Front St. 16. B. Forrester, 16.9 Front St. 16. B. Forrester, 16.9 Front St. 17. B. Forrester, 16.9 Front St. 18. Napes' Formula and Peruvian Gu-Josiah Hawkins, Southport. 18. Mapes' Formula and Peruvian Gu-Mapes' Branch, Hartford. 18. Mapes' Formula and Peruvian Gu-Mapes' Branch, Hartford. 18. Mapes' Formula and Peruvian Gu-Mapes' Branch, Hartford. 18. Mapes' Formula and Peruvian Gu-Mapes' Formula and Formula Gu-Mapes' Formula and Formula and Formula Gu-Mapes' Formula G	1513		G. B. Forrester, 169 Front St.,	Manufacturer.	S. B. Wakeman, Saugatuck.
Handerster's Potato Manure. Row York. Handes' Grass and Grain Spring Top Mapes' Formula and Peruvian Gu-J. P. Barstow, Norwich. Mapes' Grass and Grain Spring Top Mapes' Formula and Peruvian Gu-Josiah Hawkins, Southport. Mapes' Complete Manure for Gen-Mapes' Formula and Peruvian Gu-Josiah Hawkins, Southport. Mapes' Complete Manure for Gen-Mapes' Formula and Peruvian Gu-Mapes' Branch, Hartford. Mapes' Complete Manure for Gen-Mapes' Formula and Peruvian Gu-Mapes' Branch, Hartford. Mapes' Complete Manure for Gen-Mapes' Formula and Peruvian Gu-Mapes' Branch, Hartford. Mapes' Connormal Robert Formula and Peruvian Gu-Mapes' Branch, Hartford. Mapes' Connormal Robert Formula and Peruvian Gu-Mapes' Branch, Hartford. Mapes' Formula and Peruvian Gu-Mapes' Branch, Mapes Bran	1514		169 Front		
Mapes' Grass and Grain Spring Top Mapes' Formula and Peruvian Gu-J. P. Barstow, Norwich. Mapes' Formula and Peruvian Gu-Josiah Hawkins, Southport. Mapes' Formula and Peruvian Gu-Josiah Hawkins, Southport. Mapes' Formula and Peruvian Gu-Josiah Hawkins, Southport. Mapes' Formula and Peruvian Gu-Mapes' Formula and Peruvian Gu-Gu-New York. Mapes' Complete Manure for Gen-Mapes' Formula and Peruvian Gu-Mapes' Formula and Peruvian Gu-Gu-New York. Mapes' Formula and Peruvian Gu-Mapes' Formula and Peruvian Gu-Gu-Mapes' Formula and Peruvian Gu-Gu-New York. Mapes' Formula and Peruvian Gu-Mapes' Branch, Ilartford. Mapes' Formula and Peruvian Gu-Mapes' Formula and Peruvian Gu-Gu-Mapes' Formula and Formula an	1513			33	
Aupes' Potato Manure. Mapes' Complete Manure for General Usc. Mupes' Tobacco Manure, Connection Brand. Stock)ridge Potato Manure.	1418	Mapes' Grass and Grain Spring Top	Mapes' Formula and Peruvian Gu-	J. P. Barstow, Norwich.	Station Agent.
 Mapes' Complete Manure for Gen- Mapes' Formula and Peruvian Gularitord. Mapes' Complete Manure for Gen- Mapes' Formula and Peruvian Gularitord. Mapes' Tobacco Manure, Connec- Mapes' Formula and Peruvian Gularitord. Mapes' Tobacco Manure, Connec- Mapes' Formula and Peruvian Gularitor Co., New York. Stockbridge Potato Manure. Bowker Fertilizer Co., New York. Millians, Clark & Co., New York. Americus Brand Potato Fertilizer. Millians, Clark & Co., New York. J. A. Paine, Danielsonville. Station Agent. 	1483	Mapes' Potato Manure.	Mapes' Formula and Peruvian Gu-	Josiah Hawkins, Southport.	Edward Osborn, Fairfield.
	1455	Mapes' Complete Manure for Gen-	Mapes' Formula and Peruvian Gu-	Mapes' Branch, Hartford.	Station Agent.
	1458	Mapes, Tebacco Manure, Connec-	Mapes' Formula and Peruvian Gu-	" "	3
and Boston. Williams, Clark & Co., New York. J. A. Paine, Danielsonville.	1511	ticut Brand. Stockbridge Potato Manure.	ano Co., New York, Bowker Fertilizer Co., New York	Hubbell & Bradley, Sangatuck.	S. B. Wakeman, Saugatuck.
	1428		and Boston. Williams, Clark & Co., New York.		Station Agent.

SUPERPHOSPHATES, SPECIALS AND GUANOS.

	A	NITROGEN	BEN.			Риов	Риоѕрновіс Асір,	ACID,			POTASH.	SH.			·αo3
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Station Ag		Found.	Guarante	Soluble,	Reverted	Jusoluble	off latoT woA bisA	Phos. Act	.bauo4	Guaran- teed,	Found	ЭзпатапЮ	Chlorine.	Cost per t	aottantaV
1510 Buffalo Fertilizer Works Superphos. [2]	- Pe		1	11.43	2.44	.47	14.34		13.87	11.0	1.52	1.4	1.53	\$30.00	\$26.13
hate		3.07	8.9	8.43	1.68	.85	10.96	13.0	10,11	10.0	1.73	1.0	1.61	40.00	31.06
Bone Superphosphate		3.35	25	7.82	1.82	2.23	11.87	;	9.64	11.0	1.64	I.0	1	40.00	32.22
1528 Baker's Acid Phosphate	:		,	18.57	.46	.07	18,10	1 7	19.03	17.0	-	:	;	1	34.19
1551 Bay State Fertilizer	1		0.8	7.56	1.68	1.90	11.14	;	9.24	9.0	3.42	0.0	2.85	40.00	
1469 Bowker's Fish and Potash	-	2.62	es es	4.66	2 18	1.14	7.98	8.0	6.84	1	4.94	4.0	8.60	:	26.42
1494 Russell Coe's Soluble Bone Phosphate	hate	:	;	6.53	3.90	5.49	14.92	12.0	10.43	10.0	2.14	7.5	2.18	31.00	
1491 Russell Coe's Soluble Bone Phosphate		;	1	4.88	4.88	4.30	14.06	12.0	9.76	10.0	1.51	J.5	3.88	30.00	
1492 Davidge Brand A. A. Ammoniated Bone	ed Bone														
		2.14	2.1	2.06	3.39	3.07	13.52	12.0	10.45	9.0	2.38	15	2.28	35.00	30.30
1519 Forrester's Dissolved Bone Black		-	1	17.75	.18	80.	18.01	İ	17.93	1 ,	1	-	1	*29.00	32.37
1416 Farmer's Friend Ammoniated Dissolved	issolved														
Bone	:	2.46	1.8	7.15	2.11	1.18	10.44	1	9.26	8.0	2.14	1.1	2.47	35.00	
1498 Miles' I. X. L. Superphosphate		2.17	;	6.27	1.72	3.59	11.58	1	7.99	1	1.98		3.51	;	26.40
1454 Geo. W. Miles' Fish Fertilizer and Potash,	_	2.52	3.5	6.16	1.06	2.09	9.31	:	7.22	0.0	3.23	30	4.01	35.00	
1524 Mapes' High Grade Bone Superphosphate,	osphate,	1	1	28.75	3.80	.93	33.48	:	32.55	33.0		1	1	58.00	
1523 Mapes, Pure Fine Bone Dissolved in Sul												Ī			
phuric Acid			0.0	5.34	15.25	1.86	22.40	1	20.59	$0.\tilde{e}I$	1	i	1	35.00	42.94
1448 Original Coe's Superphosphate of Lime	!		0.8	8.56	1.80	1.76	12.12	1 1	10.36	9.0	1.87	1	1	38.00	
1450 Preston's Ammouiated Bone Superphos.	-		3.5	6.48	1.68	2.02	10.18	1	8.16	10.0	1.85	0.0	4,15	37.50	26.78
1506 Stearn's Ammoniated Bone Superphos.	į	2.65	63	7.71	1 49	5	101		0.60	08	60 6	00	200	00 00	

* In New York. Freight to Saugatuck, \$1.50.

Superphosphates, Specials and Guanos—continued.

	NITROGEN	EN.			Рио	Риоѕрновис Астр	Acid.			POTABH.	.вн.			·u03
Sental		.bed.			**	·pui	id.	. Available,	able,		.bed.		'uo	19d
A notined	Found.	этавтви д	Soluble.	Reverted	Insoluble	Total Ph	Phos. Act	Found.	Gnaran- anteed.	Found.	Guaranto	Chlorine.	Cost per t	noitsufsV
1430 Stearn's Fish and Potash, No. 1	2.54	63.55	2 80	2.10	5.02	9.93	:	4.90	3.0	4.86	0.4	10.79	\$35.00	\$25.69
1504 Union County Fertilizer	1.08	1.6	3.38	1.55	5.36	10.29	8.0	4.93	1	2.39	0.8		30.00	18.77
1470 U. S. Phosphate	1.7.5	1.3	5.37	1.78	.55	7.70	1	7.15	0.9	2.52	3.0	5.17	32.00	21.28
1435 Fish and Potash	3,35	3.5	26.	4.07	2.71	7.49	3.0	4.59		4.64	3.0	8.46	38.00	25.62
1550 Amerieus Ammoniated Bone Superphos.	2.22	9.7	7.61	2.2	7.	7.30	10.01	9.82	9.0	2.64	2.0	8 7 .	38.00	29.26
1462 Baker's Complete Corn Manure	4.70	6.4	6.04	07.	60.	19.56		6.4.1	6.3	7.68	7.0	9.99	45.00	35.03
14.7 Bradley's Complete Manure for Potatoes														
and Root Crops	3.14	0. 60	8.58	1.61	1.39	11.58	1	10.19	8.0	6.38	4.5	5.89	45.00	35.85
1497 Davidge Brand, Potato Manure	2.09	33.5	5.92	5.39	3.85	15.16	1	11.31	8.0	5.22	4.1	4.68	44.00	34.32
1512 Forrester's Corn Manure	4.82	8.9	8.87	Ξ.	.22	9.30	1	8.98	6.5	9.69	8.0	7.38	*45.00	41.92
1514 Forrester's Onion Manure	6.21	5.3	2.79	60.	.12	8.00	1	7.88	3.5	7.65	2.0	2.89	*45.00	45.41
1513 Forrester's Potato Manure	16.1	3.5	5.68	5.1 20	2:	6.23	-	5.96	5.3	10.42	10.0	1,05	*45.00	42.84
1418 Mapes' Grass & Grain Spring Top Dressing.	5.54	4.1	7.68	3.10	8.	11.62	2.0	10.78	1	6.75	2.0	6.07	41.00	45.13
1483 Mapes' Potato Manure	1.27	<i>وي</i> .7	8.70	2.72	69.	12.11	8.0	11.42	1	7.75	0.9	3.59	48.00	44.31
1455 Mapes' Complete Manure for General Use,	5.71	5.0	01.1	3.33	1.97	12.99	10.0	11.02	-	3.69	3.0	3.49	48.00	44.45
1458 Mapes' Tobaeco Mannre, Conn. Brand	5.43	4.7	6.75	3.03	86:	10.76	7.7	9.78	1	7.79	7.7	88.	50.00	47.93
1511 Stocktridge Potato Manure	3.81	್ರಾ ್ತಾ	67.9	.57	.95	8.31		7.36	8.0	6.40	2.0	68.8	45.00	33.79
1428 Williams, Clark & Co's Vege'ble Fertilizer,	3.40	3.0	6.16	1.19	14	7.49	1	7.35	5.0	8.55	8.0	1.14	45.00	35.53

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